

PRODUCTION OF ALPHA-OLEFIN OLIGOMER

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Abstract of JP11060511

PROBLEM TO BE SOLVED: To provide a method for producing an α -olefin oligomer such as of 1-hexene in remarkably high yield, selectivity, and productivity by subjecting α -olefin to oligomerization reaction while preventing any side products from adhering to the wall of the reactor.
SOLUTION: This method is to continuously produce an α -olefin oligomer by subjecting α -olefin to oligomerization reaction using a chrome-based catalyst, wherein there is used a reacting apparatus provided with a circulating flow channel running from a reactor to return thereto through the intermediary of a heat exchanger, the flow rate per hour through the channel is set to 3 to 10 times the quantity of the liquid remaining in the reactor, and the reaction is carried out under the condition that the temperature θ of the refrigerant in the heat exchanger and the reaction temperature T satisfy the equation of $100 \text{ deg.C} < \theta < T - 5 \text{ deg.C}$.

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